



Administrative County of Middlesex.

ANNUAL REPORT

OF THE

**MEDICAL SUPERINTENDENT OF CENTRAL
MIDDLESEX COUNTY HOSPITAL**

FOR THE

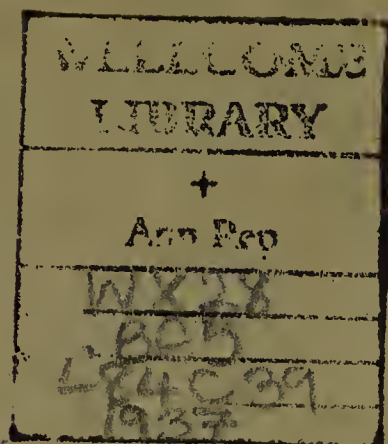
YEAR 1937.

LONDON :

HARRISON AND SONS, LTD., ST. MARTIN'S LANE, W.C.2.

Printers to His Majesty The King.

1938.



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ANNUAL REPORT OF THE MEDICAL SUPERINTENDENT ON THE WORK OF
CENTRAL MIDDLESEX COUNTY HOSPITAL FOR THE YEAR 1937.

Staff.

WHOLE-TIME MEDICAL STAFF.

Medical Superintendent.

H. Carter, M.B., Ch.B., F.R.C.S.E., M.C.O.G.

Deputy Medical Superintendent and Senior Physician.

H. Joules, M.D., B.S., M.R.C.P.

Senior Surgeon.

T. G. I. James, M.B., B.Sc., M.Ch., F.R.C.S.

Surgeon.

N. M. Matheson, M.B., B.Ch., F.R.C.S., M.R.C.P.

Assistant Medical Officers.

A. D. Abdullah, M.B., Ch.M., M.R.C.P.
J. Sakula, M.D., B.S., M.R.C.P., D.C.H.
J. S. MacVine, M.B., B.S., F.R.C.S.E., M.C.O.G.,
H. Canwarden, M.R.C.S., L.R.C.P., D.A., M.M.S.A., M.C.O.G.
F. M. Yeates, M.B., B.S., F.R.C.S.
A. C. R. Rankin, M.B., B.Ch., D.A.
P. Berbrayer, M.D., M.C.P.S.
K. T. Hughes, M.B., B.S., M.R.C.P.
H. W. Hall, M.B., B.S.

VISITING MEDICAL STAFF.

Radiologist.

A. Flett, M.D., D.M.R.E.

Electro-Therapist.

C. A. Robinson, M.A., M.B., B.Ch., D.M.R.E.

Psychiatrist.

G. W. Shore, O.B.E., M.D., B.S., D.P.M., D.P.H.

Laryngologist.

P. Maxwell Ellis, M.D., M.S., F.R.C.S.

Dental Surgeon.

W. Moodie, L.R.C.P., L.R.C.S., L.D.S.

NURSING STAFF.

Matron—Miss B. Gebhard.

Administrative Sisters	..	..	4	Staff Nurses	..	..	76
Departmental Sisters	..	..	7	Staff Nurses (ambulance)	..	..	5
Sister Tutors	..	..	2	Staff Nurse midwifery pupils	..	..	10
Ward and Night Sisters	..	..	32	Probationer Nurses	..	..	132
Masseuses	..	..	5	Mental Nurses	..	..	19
Male Nurses	..	..	9	Assistant Nurses	..	..	69

Steward.

E. W. E. Poole.

Chief Almoner.

Miss M. L. Tate, B.Sc.

Chaplain.

Rev. T. D. Lloyd.

Classification of Beds.

	Male.	Female.	Children.	Total.
Acute medical	62	126	36	224
Acute surgical	53	55	10	118
Gynæcological	—	34	—	34
Maternity	—	28	28	56
Oto-Rhino-Laryngological	5	5	10	20
Orthopædic	12	12	16	40
Dietetic	12	12	—	24
Tuberculosis	10	10	—	20
Mental (short stay)	7	7	—	14
Chronic sick	138	180	—	318
Nursery	—	—	50	50
Totals	299	469	150	918

Total number of beds 918

Daily average number of beds occupied 787

Total patient days 287, 110

Maximum number of beds occupied 870—on 18th April.

Minimum number of beds occupied 699—on 5th September.

Throughout the year, 52 male beds were unavailable, and during the early part of the year, 50 female beds were also unavailable, owing to the modernisation of wards. The temporary loss of these beds is proving to be a serious handicap in accommodating acute cases during the peak periods.

Statistical Tables for the Year ended 31st December, 1937.

Remaining in hospital, 1st January, 1937	827
Admitted	8,200
Born in hospital	698
	9,725
Discharged	7,790
Died	1,135
	8,925
Remaining in hospital on 31st December, 1937	800

Admissions and discharges still continue to show a steady increase, which is chiefly due to more acute cases being treated and also, in a very minor degree, to the chronic beds becoming more mobile.

Classification of In-Patients.

Male infants under 3	781
Boys, 3-16	457
Men	2,556
	3,794
Female infants under 3	646
Girls, 3-16	344
Women	4,141
	5,131
Total	8,925

I.—TABLE SHOWING DURATION OF STAY OF THE 8,925 PATIENTS DURING THE YEAR.

Four weeks or less	7,104
Exceeding four weeks but under thirteen weeks	1,406
Exceeding thirteen weeks	415
Total	8,925

II.—TABLE SHOWING DISPOSAL OF THE 8,925 PATIENTS.

Home	7,107
To public assistance institutions	110
Fever hospitals	56
Sanatoria	40
Convalescent homes	159
Mental hospitals	297
Voluntary hospitals	21
Died	1,135
Total	8,925

These figures, showing the destination of patients on discharge, do not reveal the true and ultimate destination. This is due to the fact that large numbers of cases have been discharged home pending vacancies at convalescent homes and sanatoria, in order to make much needed accommodation available.

III.—TABLE SHOWING THE RESULTS OF TREATMENT.

Cured	5,012	Per cent. 56·3
Relieved	2,223	25·0
In statu quo	555	6·1
Died	1,135	12·6
	8,925	100·00

Deaths.

Ages.					Male.	Female.	Total.
Under 1 year					70	56	126
1-5 years					8	8	16
5-10 years					5	2	7
10-15 years					6	4	10
15-20 years					2	4	6
20-30 years					28	20	48
30-40 years					28	28	56
40-50 years					45	39	84
50-60 years					108	59	167
60-70 years					135	100	235
70-80 years					129	121	250
Over 80 years					46	84	130
Totals					610	525	1,135
Deaths within 24 hours of admission							135
Deaths within 48 hours of admission							91
Deaths within 72 hours of admission							58
							284
All other deaths							851
Total.. .. .							1,135

The total number of deaths has shown a large increase over last year, but, as will be seen from the above table, the increase is chiefly in the cases of advanced years. This is largely due to cases being admitted in the terminal or advanced stages of chronic disease and senility.

IV.—TABLE SHOWING THE DISTRICTS TO WHICH THE 8,925 PATIENTS BELONGED.

Willesden	6,169
Acton	1,900
Hendon	677
*Other areas.. .. .	179
Total.. .. .	8,925

* The majority of patients admitted in this group are from Kingsbury, Wembley, Sudbury and Alperton districts. Certain cases from these districts are accepted for admission direct, owing to their close proximity to the hospital, and this arrangement has worked very satisfactorily for the medical practitioners, patients and patients' relatives. On the completion of the extensions to the hospital, now in course of erection, it should be possible to include these districts, together perhaps with North Ealing, in the hospital's recognized area.

V.—TABLE SHOWING HOW THE 8,925 PATIENTS WERE ADMITTED.

By relieving officers' orders	388
By Medical Superintendent—	
Births	689
Police cases (other than accidents)	92
Accidents	565
Maternity cases (emergency)	736
Transfers	84
Other cases	6,371
Total	8,925

Local medical practitioners have expressed their appreciation in regard to the satisfactory arrangement for direct admission. The above table shows that only about 4·4 per cent. of admissions are now dealt with by relieving officers, such cases consisting mainly of the admission of healthy children to the nursery and mental cases under Section 20 of the Lunacy and Mental Treatment Act, 1890.

VI.—CLASSIFICATION OF THE DISEASES AND CONDITIONS OF THE 8,925 PATIENTS WHO WERE DISCHARGED OR DIED DURING THE YEAR.

Disease or Condition.	Medical.		Surgical and Obstetric.		Totals.
	Dis-charged.	Died.	Dis-charged.	Died.	
Healthy—					
No abnormality detected	107	—	—	—	107
Breast-fed infants with mothers	60	—	—	—	60
Births	—	—	697	30	727
Diseases due to infection—					
Erysipelas	20	—	—	—	20
Gonorrhœa	28	—	6	—	34
Influenza	190	50	—	—	240
Measles—morbilli and rubella	—	—	—	—	7
Mumps, pertussis and varicella	14	—	—	—	14
Rheumatism, acute and sub-acute	54	—	—	—	54
Rheumatic chorea	3	—	—	—	3
Syphilis, primary and secondary	18	—	4	1	23
Tuberculosis, pulmonary	104	68	—	—	172
„ non-pulmonary	—	—	23	2	25
Miscellaneous notifiable	34	5	—	—	39
Miscellaneous non-notifiable	3	—	2	—	5
Diseases of the nervous system—					
Senile dementia	6	6	—	—	12
Mental diseases	526	2	—	—	528
Miscellaneous	55	15	20	3	93

Disease or Condition.	Medical.		Surgical and Obstetric.		Totals.
	Dis-charged.	Died.	Dis-charged.	Died.	
Diseases of the eye	7	3	—	—	10
Diseases of the ear	—	—	158	2	160
Diseases of the nose and sinuses	—	—	20	—	20
Diseases of the circulatory system—					
Rheumatic carditis	35	11	—	—	46
Myocardial degeneration, &c.	3	24	—	—	27
Arterio-sclerosis	12	17	—	—	29
Heart and arteries	140	109	—	—	249
Cerebral hæmorrhage and thrombosis	64	84	—	—	148
Miscellaneous	—	1	—	—	1
Diseases of the blood and spleen	29	10	2	—	41
Diseases of the lymphatic system	13	5	29	—	47
Diseases of the endocrine glands	2	—	19	—	21
Diseases of the breast	—	—	32	—	32
Diseases of the respiratory system—					
Laryngitis	—	—	1	—	1
Bronchitis, acute	169	7	—	—	176
,, chronic	70	19	—	—	89
Pneumonia, primary	150	36	—	1	187
Broncho-pneumonia	132	67	—	—	199
Pleurisy	47	—	19	1	67
Miscellaneous	116	18	—	3	137
Diseases of the teeth and gums	5	—	28	—	33
Diseases of the digestive system—					
Tonsillitis	45	—	148	1	194
Enlarged tonsils and/or adenoids	—	—	36	—	36
Peptic ulcers	129	20	26	5	180
Nasopharynx, pharynx and œsophagus	10	—	15	—	25
Stomach and duodenum, other	52	4	48	3	107
Appendicitis, all	—	—	383	10	393
Visceroptosis, complications and stasis	32	—	21	—	53
Hernia	—	—	81	7	88
Intestine, rectum, anus—other	22	49	198	29	298
Liver and gall bladder	15	1	43	6	65
Peritoneum	5	—	—	3	8
Miscellaneous	7	1	3	1	12
Diseases due to disorders of nutrition or of metabolism	66	15	—	—	81
Diseases of the generative system—					
Male organs	—	—	48	7	55
Female organs	—	—	166	4	170
Pregnancy, parturition and puerperium—Normal and abnormal conditions	—	—	1,165	6	1,171
Diseases of the organs of locomotion—					
Fibrositis group	15	—	2	—	17
Arthritis deformans	89	—	3	5	97
Osteomyelitis, acute and chronic	2	—	18	1	21
Miscellaneous	—	2	4	—	6
Diseases of the areolar tissue	28	—	12	—	40
Diseases of the skin	268	6	85	—	359
Diseases of the urinary organs—					
Nephritis	12	14	3	2	31
Pyelitis	35	—	2	—	37
Miscellaneous	61	8	72	5	146
Injuries—					
Superficial	—	—	30	—	30
Deep and foreign bodies, injuries, various	—	—	136	—	136
Shock and other injury	—	—	6	—	6

Disease or Condition.	Medical.		Surgical and Obstetric.		Totals.
	Dis-charged.	Died.	Dis-charged.	Died.	
Injuries— <i>continued</i> .					
Cerebral concussion	—	—	46	—	46
„ contusion	—	—	2	—	2
Burns and scalds	—	—	47	3	50
Wounds, clean and septic	—	—	62	1	63
Septic conditions of the hand	—	—	29	1	30
Fractures and dislocations	—	—	281	12	293
Miscellaneous	—	—	24	—	24
Tumours, benign—					
Generative system	—	—	4	—	4
Other organs and structures	—	—	13	6	19
Tumours, malignant—					
Digestive system	—	—	43	91	134
Generative system	—	—	30	26	56
Urinary organs	—	—	5	8	13
Other organs and structures	—	—	36	46	82
Tumours, intra-cranial	—	—	10	12	22
Senile decay	84	112	—	—	196
Malformations, congenital	—	—	—	—	—
Poisonings, &c.	9	—	11	3	23
Special investigation/treatment	79	—	44	—	123
Totals	3,288	786	4,502	349	8,925

In-patients—Diseases and Conditions.
(Grouped in order of frequency.)

	Discharged.	Died.	Total.
Diseases of the digestive system	1,319	140	1,459
Pregnancy, parturition and puerperium	1,165	6	1,171
Births	697	30	727
Injuries—general and local	660	20	680
Diseases of the respiratory system	556	116	672
Mental diseases	532	8	540
Diseases of the circulatory system	254	246	500
Diseases of the genito-urinary system	400	39	439
Diseases of skin and areolar tissue	393	6	399
Malignant diseases	114	171	285
Diseases of the nervous system	263	20	283
Acute infectious diseases	230	42	272
Influenza	190	50	240
Rheumatism	225	8	233
Tuberculosis	127	70	197
Senile decay	84	112	196
Venereal diseases	56	1	57
Tumours and cysts—benign	29	16	45
Healthy infants with mothers	167	—	167
Diseases of remaining groups	329	34	363
Totals	7,790	1,135	8,925

Analysis of Admissions of Mental Patients.

	Male.	Female.	Total.
Placed under order by Medical Superintendent (Willesden)	12	29	41
" " " " (Hendon)	15	13	28
" " " " (Acton)	4	3	7
" " relieving officers (Willesden) ..	18	18	36
" " " " (Hendon).. ..	45	116	161
" " " " (Acton)	3	14	17
" " Justices or police (Willesden) ..	10	7	17
" " " " (Hendon)	31	30	61
" " " " (Acton)	—	4	4
Transfers from Redhill Institution and Hospital ..	4	11	15
Totals	142	245	387

Admissions, Discharges, Certifications and Deaths of Mental Patients during the Year.

	Male.	Female.	Total.
Remaining in wards on 31st December, 1936	—	4	4
Admissions during the year	142	245	387
Discharges to wards (not certified)	48	78	126
Discharges, care of friends (not certified)	3	8	11
Transferred to mental hospitals (certified)	89	157	246
Died	2	5	7
Remaining in wards on 31st December, 1937	—	1	1

As will be seen by the above table, 63 per cent. of the patients admitted and placed on the various orders were certified and removed to Shenley Mental Hospital; approximately 2 per cent. died, the remainder being not certified.

During the year, 40 patients were transferred to Shenley Mental Hospital as voluntary patients. These transfers show an increase over last year, and co-operation with the psychiatric department has been established, thus enabling the maximum number of suitable cases being dealt with in this category.

Eleven patients were also transferred to Shenley as temporary patients, and throughout the year Section 5 of the Mental Treatment Act, 1930, has been used wherever possible to avoid certification, especially in puerperal cases.

The work of this special department still continues to increase and, as will be seen by the segregation of cases into their respective areas, the Hendon area group is the most predominant. The analysis of admissions reveals that 250 of those admitted were of the Hendon area group, which fact undoubtedly caused increased administrative difficulties in this department.

Work of the Special Departments.

1. Surgical	Major and minor operations	3,554
2. Anæsthetics	General	1,808
	Local	1,512
	Spinal	267
	Dental—local and general	210
		3,797
3. Radiological	Investigations	6,243
	Radiograms	12,508
4. Massage	Patients treated	561
	Attendances	6,232
	Treatments	11,875
5. Electrical treatment	Patients treated	527
	Attendances	8,374
	Treatments	16,608

6. Dental	..	..	..	Patients treated	..	..	..	..	..	302
				Extractions	..	..	..	..	..	1,334
				Dentures and repairs	..	..	..	..	..	144
				Attendances	..	..	..	..	..	1,143
7. Psychiatric	..	..		Patients treated	..	..	..	..	..	384
				Attendances	..	..	..	..	..	1,022
8. Maternity	..	..		Women examined at ante-natal clinic		..	..	..	..	876
				Attendances at ante-natal clinic		..	..	..	..	3,271
				Deliveries	..	..	..	..	..	720
				Obstetric operations	..	..	..	..	..	98
9. Pathological	..	..		Investigations (carried out at Central Middlesex County Hospital)	..	..	..	..	..	10,439
				Investigations (carried out at other hospitals)	..	..			..	1,036
10. Out-patients	..	..		Number of patients seen	..	..	..	..	..	8,892
				Number of attendances	..	..	..	..	..	30,791
				Number who had received in-patient treatment previously						2,442
				Number who were subsequently admitted for in-patient treatment	..	..	..	..	..	234
11. Nurses' sick room	..			Admissions	..	..	..	..	..	128

1. Department of Surgery.

ANALYSIS OF OPERATIONS PERFORMED DURING THE YEAR.

	Theatre.	Wards, Casualty and Out- patients.	Total.
On skull, brain or spine	41	—	41
On sympathetic nervous system	12	—	12
On abdomen and contents	701	—	701
On kidneys and urinary tract	208	—	208
On male generative organs	80	42	122
On female generative organs (gynæcological)	235	79	314
On „ „ „ (obstetrical)	12	86	98
On bones—joints and tendons	177	268	445
Amputations	29	—	29
On veins and arteries	34	120	154
On thorax and chest wall	24	34	58
On ear, nose and throat	221	4	225
On thyroid gland	19	—	19
On skin and superficial structures	330	585	915
On eye	1	212	213
Totals	2,124	1,430	3,554

The following figures relate to operations of special interest or those most commonly performed during the year :—

On skull, brain, spine and nervous system (52)—

For sub-dural hæmorrhage	4
For cerebral tumour	11
For meningocele	2
For cerebral abscess	9
For spinal tumour	1
Ventricular estimation and ventriculography	12
Encephalography	1
Injections for trigeminal neuralgia	3
Intrathecal injection of alcohol	2
Sympathectomy	1
On median nerve	5
Chordotomy	1

On abdomen and its contents (701)—

Rammstedt's operation	..	..	..	..	..	..	3
Gastrectomy	..	..	..	..	..	..	6
Gastrostomy	..	..	..	..	..	..	2
Gastro-enterostomy	..	..	..	..	..	..	15
For peptic ulcer—perforated	..	..	..	..	..	..	34
Cholecystectomy, cholecystotomy	..	..	..	..	..	..	22
Appendicectomy	..	..	..	..	..	..	214
Appendicectomy with drainage	..	..	..	..	..	..	95
Enterostomy, colostomy with or without resection	..	..	..	..	..	..	27
For intestinal obstruction	..	..	..	..	..	..	20
Herniotomy (20 strangulated)	..	..	..	..	..	..	73
Resection of gut	..	..	..	..	..	..	8
Rectal operations	..	..	..	..	..	..	112
Intusseption	..	..	..	..	..	..	3
Laparotomy exploration, drainage, &c.	..	..	..	..	..	..	67

On kidney, ureter and bladder (208)—

Cystoscopy	..	..	..	..	..	..	116
Cystoscopy with ureteric catheterization	..	..	..	..	..	..	61
Suprapubic cystotomy, cystectomy	..	..	..	..	..	..	16
Nephrectomy, nephrotomy	..	..	..	..	..	..	12
Ureteric calculus..	..	..	..	..	..	..	3

On male generative organs (121)—

Orchidectomy	..	..	..	..	..	..	4
Torsion of testis	..	..	..	..	..	..	1
Suprapubic prostatectomy	..	..	..	..	..	..	7
Operation on vas deferens	..	..	..	..	..	..	11
For urethral stricture	..	..	..	..	..	..	62
Circumcision	..	..	..	..	..	..	24
For varicocele	..	..	..	..	..	..	2

On female generative organs (314)—

Hysterectomy	..	..	..	..	..	..	7
On tube and/or ovary	..	..	..	..	..	..	15
For ectopic gestation	..	..	..	..	..	..	10
Dilatation and curettage—evacuation of retained products, biopsy of cervix, &c.	..	..	..	..	..	..	254
Plastic on vagina	..	..	..	..	..	..	21
Removal of cervical polypi	..	..	..	..	..	..	7

On bones, joints and tendons (445)—

For fractures (open reductions—11)	..	..	..	..	..	..	331
Arthrodesis	..	..	..	..	..	..	1
For osteomyelitis	..	..	..	..	..	..	26
Sequestrectomy	..	..	..	..	..	..	10
Tenotomy	..	..	..	..	..	..	3
Repair of tendon	..	..	..	..	..	..	12
Amputations	..	..	..	..	..	..	29
Excision of semi-lunar cartilage	..	..	..	..	..	..	7

On ear, nose and throat (225)—

Mastoidectomy	..	..	..	..	..	..	52
Laryngoscopy	..	..	..	..	..	..	5
Myringotomy	..	..	..	..	..	..	5
Bronchoscopy	..	..	..	..	..	..	1
Tonsillectomy	..	..	..	..	..	..	120
Oesophagoscopy	..	..	..	..	..	..	2
Caldwell Luc's operation	..	..	..	..	..	..	1
Submucous resection of nasal septum..	..	..	..	..	..	..	1
Nasal polypi	..	..	..	..	..	..	4

Analysis of Fractures and Dislocations during the Year.

Bone or Joint.	Out-patients.	In-patients.		Total.
		Result.		
		Discharged.	Died.	
Skull	—	13	1	14
„ with concussion	—	5	4	9
Vertebrae	1	2	1	4
Ribs	9	22	1	32
Clavicle	7	11	—	18
Scapula	—	2	—	2
Humerus	—	12	—	12
Radius or ulna or both	16	39	—	55
Carpus, metacarpus or phalanges	48	1	—	49
Pelvis	—	7	—	7
Femur	—	40	1	41
Patella	—	9	—	9
Tibia	—	22	—	22
Fibula	—	7	—	7
Tibia and fibula (simple and compound)	3	29	1	33
Tarsus, metatarsus or phalanges	7	8	—	15
Multiple bony injuries (simple and compound)	—	4	3	7
Fracture—dislocations, various	4	39	—	43
Dislocations, various	12	8	—	20
Separated epiphyses	2	1	—	3
Totals	109	281	12	402

Fracture cases—								
In-patients	..	..	..	Male	..	..	..	187
				Female	..	..	..	106
								— 293
Out-patients	..	..	..	Male	..	..	..	93
				Female	..	..	..	16
								— 109
								—
				Grand Total			..	.. 402
								—

2. Department of Anaesthetics.

During the early part of the year a very necessary and pressing need was fulfilled by the appointment of a full-time resident anæsthetist. The administration of anæsthetics had hitherto been carried out by various members of the medical staff, and this system, although reasonably satisfactory, did not fully meet the demands of the hospital, particularly having in mind the highly specialised methods employed in the modern science of anæsthesia.

Analysis of Anæsthetics administered during the Year.

	Theatre.	Wards.	Total.
<i>General anæsthesia—</i>			
Ether—ether and chloroform	900	144	1,044
Nitrous oxide + oxygen + ether	180	2	182
Nitrous oxide + oxygen	184	4	188
Ethyl chloride (general)	15	11	26
Nitrous oxide	—	265	265
Evipan	83	10	93
Avertin	7	3	10
Totals	1,369	439	1,808

Analysis of Anæsthetics administered during the Year.

	Theatre.	Wards.	Total.
<i>Spinal anæsthesia—</i>			
Intrathecal injection—			
Stovaine	172	6	178
Percaine	86	3	89
Totals	258	9	267
<i>Local anæsthesia—</i>			
Novocaine	240	806	1,046
Ethyl chloride	18	69	87
Cocaine	20	359	379
Totals	278	1,234	1,512

General anæsthetics administered	1,808
Spinal	267
Local	1,512
Grand total	3,587

3. Radiological Department.

In this department both the number of patients radiographed and the number of radiographs taken show an increase of over 20 per cent. on the figures of last year. This fact speaks very highly of the personnel and efficiency in this department, which is becoming increasingly important in modern diagnostic methods.

Number of in-patients radiographed	5,018
Number of out-patients radiographed (casualties)	496
Number of out-patients radiographed (health centres and tuberculosis dispensaries)	729
Total	6,243

Analysis of investigations made during the Year.

	Number.	
	Cases.	Radiographs.
Skull	356	1,294
Lungs	1,629	1,902
„ pleuræ	240	271
Heart	184	226
Biliary passages	74	156
Alimentary system	742	2,147
Urinary system	400	1,067
Generative system	135	248
Bones (injured)	1,624	3,158
Bones (disease)	749	1,812
Teeth	13	40
Miscellaneous	97	187
Totals	6,243	12,503

Special methods of investigation (included in the preceding table)—

Barium meals	446
Barium enemas	114
Barium swallows	29
Cholecystograms	56
Urograms	82
Pyelograms	43
Lipiodol—lungs	45
„ sinuses	7
Encephalograms	4
Ventriculograms	10
Cystograms	3
Urethrograms	2
Miscellaneous	19
Total	860

Screen examinations—

Barium meals	402
Barium enemas	113
Barium swallows	23
Lungs	64
Heart	4
Total	606

4. Massage Department.

Attendances and treatments continue to increase and good results are being achieved, many cases making such good progress that they were able to be discharged to the out-patient department, thereby making accommodation available much earlier than normally would be so.

Admitted for treatment	561
Treatment completed	482
Remaining under treatment	79
In-patients 297	Treatments 5,785
Out-patients 264	„ 6,090
Total 561	Total 11,875

5. Electrical Department.

Owing to the increase of number of patients and attendances, a further weekly session was found to be necessary to deal adequately with the work.

Admitted for treatment	407
Treatment completed	341
Remaining under treatment	66
In-patients	204
Out-patients	323
Total	527
Treatments—	
In-patients	3,769
Out-patients	12,839
Total	16,608
Attendances—	
In-patients	1,896
Out-patients	6,478
Total	8,374

6.. Dental Department.

Extractions (multiple and single) by local and general anæsthetic—							
In-patients	..	..	..	..	..	..	483
Out-patients	..	..	..	..	..	..	851
						—	1,334
Anæsthetics (local and general)	..	..	..	..	..	..	210
Scalings, complete	..	..	..	..	..	..	7
Dentures	..	..	..	..	..	..	131
Repairs and additions	..	..	..	..	..	..	13
Total number of patients seen for treatment, examination and advice	..	..	..	..	..	..	302
Fillings	..	..	..	..	..	..	28
Fractured jaws splinted	..	..	..	..	..	..	3
Attendances	..	..	..	..	..	..	1,143
Number admitted from out-patient department	..	..	..	..	..	..	3

7. Psychiatric Department.

This department has become well established and is now an important factor in the hospital's service. Medical practitioners, both local and in the Hendon area, have taken full advantage of this special department, and, as will be seen by the attendances, about 20 patients are seen at each weekly session. Should these attendances continue to increase, as seems most likely, a further weekly session will become essential.

Attended for treatment	..	..	..	..	..	..	384
Treatment completed	..	..	..	..	..	..	299
Admitted for in-patient treatment	..	..	..	..	..	..	19
						—	
Remaining under treatment 31st December, 1937	..	..	..	..	..	..	66
						—	
In-patients	..	..	138	Attendances	..	..	151
Out-patients	..	..	246	„	..	..	871
			—				—
Total	..	..	384	Total	..	..	1,022
			—				—

8. Maternity Department.

Ante-Natal Clinic.

Ante-natal sessions held	..	..	..	..	..	..	101
Expectant mothers examined	..	..	..	..	..	..	876
Total attendances	..	..	..	..	..	..	3,271
Average number per session	..	..	..	..	..	..	32
Average number of attendances per expectant mother	..	..	..	..	..	..	3.7

A further ante-natal session was introduced early in the year, making three in all. This was necessary to cope with the ever-increasing number of attendances. Co-operation has been established with Health Centres of surrounding local authorities, and this has reduced the attendances.

Analysis of the 720 deliveries during the year.

Analysis of the 720 deliveries during the year.								Per cent.
Mother admitted	..	From ante-natal clinic	..	..	..	655	90·9	
		Otherwise	..	..	..	65	9·1	
						720	100·0	
Civil state	..	Married	..	..	..	649	90·13	
		Unmarried	..	..	..	71	9·87	
						720	100·0	
Parous state	..	Primipara	..	..	..	401	55·55	
		Multipara	..	..	..	319	44·45	
						720	100·0	
Presentation	..	Vertex-anterior	..	..	..	660		
		Vertex-posterior	..	..	..	27		
		Breech-anterior	..	..	..	42		
		Breech-posterior	..	..	..	4		
		Face	..	..	..	4		
		Total	..	..	..	737		

17 sets of twins included in above.

35 cases were admitted after delivery at home—not included in above figures.

Table showing the method of delivery of the 737 babies born in the department.

Method of Delivery.	Number of Births.	Deaths.		
		Maternal.	Foetal.	Neo-natal.
Natural forces	657	—	22	16
Forceps	27	—	2	2
Cæsarean section.. .. .	5	—	—	—
Craniotomy	2	—	2	—
Breech	46	1	13	3
Total	737	1	39	21

Surgical inductions	..	..	..	..	..	..	..	8 cases.
Delivered by midwives	..	..	..	..	..	..	659	,,
Delivered by doctors	..	..	..	..	..	..	61	,,
Midwife sought medical assistance in	..	..	..	..	..	..	89	,,
<i>Labour—</i>							Per cent.	
Normal	..	..	..	..	..	599	83·19	
Abnormal	..	..	..	..	..	104	14·44	
Multiple	..	..	..	..	..	17	2·37	
Total..	..	..	..	..	720	100·00		
<i>Births—</i>							Per cent.	
Full-time	..	..	..	..	..	669	90·77	
Premature	..	..	..	..	..	29	3·92	
Stillborn	..	..	..	..	..	39	5·31	
Total..	..	..	..	..	737	100·00		
Average weight at birth—ante-natal clinic infants	..	..	..	..	..	7 lbs. 4 ozs.		
" " —other infants	..	..	..	..	..	6 lbs. 14 ozs.		
Infants not entirely breast fed	..	..	..	..	..	43		
Anæsthetics given for obstetric purposes	..	..	..	..	..	93		
Anæsthetics given for normal cases—								
Minnett's apparatus and Queen Charlotte's apparatus	..	..	..	..	..	664		
Average length of lying-in period	..	..	..	..	..	13 days.		

Obstetrical Operations.

Cæsarian section	..	..	..	..	..	..	5
Manual removal of placenta	..	..	..	..	..	..	6
Removal of placenta, "Crede's method"	..	..	..	..	..	..	1
Version	..	..	..	..	..	..	20
Induction of labour	..	..	..	..	..	..	8
Forceps delivery	..	..	..	..	..	..	27
Craniotomy	..	..	..	..	..	..	2
Perineal repair	..	..	..	..	..	..	17
Treatment of ante-partum hæmorrhage	..	..	..	..	..	..	6
Examination under general anæsthetic	..	..	..	..	..	..	6

Maternal Mortality.

During the year there was only one maternal death (case no. 3098) among those women confined at hospital and two other deaths among those delivered before admission to hospital. All of these were emergency cases, and had not attended the ante-natal clinic. There were also three cases of abortion with infection that died. Below is given a brief résumé of the three maternal deaths.

Mortality rate per 1,000 hospital deliveries 1·38

Case No.	Particulars.
698	PRIMAPARA, aged 25, admitted 5th January, with signs and symptoms of puerperal septicæmia, having been spontaneously delivered of a 32 weeks' stillborn infant at home. Temperature, 103. Pulse, 136. Respiration, 28. No previous illness. Patient's condition improved after admission, and on 14th January she was examined under a general anæsthetic. Bi-manually, uterus was bulky, and there was much thickening in the Pouch of Douglas. No abscess felt. Offensive decidua removed; no curetting. Patient remained very ill, with rapid pulse and temperature, also slight loss per vaginam. Blood transfusion was given on 21st January, but patient did not improve and died on 23rd from puerperal septicæmia, retained products of conception. Confirmed by <i>post-mortem</i> and histological examination.
3098	PRIMAPARA, aged 26, admitted 17th April. Had not attended ante-natal clinic, and was sent in by private doctor as ? multiple pregnancy. No serious previous illness. 19th April, general anæsthetic—impacted breech, extended arms and leg. Bilateral episiotomy performed and arms brought down. Delivered of a full-term stillborn infant. Following delivery, lochia became offensive, temperature slightly lower, but pulse still rapid. She later became delirious, and showed typical signs of septicæmia, dying on 1st May from ulcerative endocarditis and puerperal infection following impacted breech. This was confirmed at autopsy.
3481	4-GRAVIDA, aged 38. Admitted 4 p.m. 16th May for retained placenta, after forceps delivery of a full-term infant at home by private doctor. Patient was pale, very shocked and pulseless on admission, and too ill for operation, dying two hours after admission for obstetric shock and retained placenta. <i>Post-mortem</i> examination revealed very adherent placenta accreta.

Maternal Morbidity.

All fatal cases and all cases in which a temperature of 100·4° F. or more is sustained for a period of 24 hours or recurs during that period. (Ministry of Health standard.)

	Ante-natal clinic.	Non-ante-natal clinic.	Total.
Pyrexial cases	9	7	16
Deaths	—	1	1
Pyrexial cases and maternal deaths	9	8	17
Number of women delivered	655	65	720
Maternal morbidity—rate per 1,000 delivered ..	13·74	123·07	23·61

Analysis of the 16 Puerperal Pyrexia Cases.

Register Number.*	Age.	Gravida.	Maturity (weeks).	Method of Delivery.	Complication of Labour and/or Maternal Complication.	Pyrexia.		Cause of Pyrexia.	Cervical Swabbing.	Births.†
						Date of Onset.	Day of Puerperium			
15 E.	31	2	36	Natural forces ...	Transverse presentation	1937. 8th Jan.	3	Pre-partum influenza	—	S.B. M.
122	25	3	40	” ” ...	Post-partum hæmorrhage, retained placenta	18th Jan.	10	Uterine infection	—	Live.
147	24	2	40	Cæsarian section	Disproportion ...	20th Mar.	1	Sapræmia	—	Live.
188	29	1	40	Natural forces ...	Nil ...	11th April	5	Uterine infection	—	Live.
202 E.	23	1	40	Forceps	Delayed second stage, hydrocephalic fetus	13th April	2	Breast abscess	—	S.B. M.
220	26	1	40	Natural forces ...	Extended breech	22nd April	3	Pyæmia abscesses in lung	Hæm. strep...	S.B.
374	27	2	40	” ” ...	Prolapse cord, transverse presentation	25th June	3	Sapræmia ...	—	S.B.
384 E.	18	1	30	” ” ...	Nil ...	28th June	2	” ” ...	Hæm. strep...	S.B.
545 E.	25	1	38	Forceps	Intrapartum eclampsia	12th Sept.	7	Intrapartum eclampsia	—	Live.
608 E.	34	4	34	Braxton Hicks's manoeuvre	Placenta prævia	23rd Oct.	13	Uterine infection	No growth	S.B.
620	20	1	40	Natural forces ...	Extended breech	6th Nov.	9	Breast abscess	—	Live.
630	19	1	40	” ” ...	Toxæmia	10th Nov.	9	Uterine infection	—	Live.
632	30	1	40	” ” ...	Nil ...	13th Nov.	12	Breast abscess	—	Live.
671 E.	35	1	40	Forceps after induction	Persistent occipito posterior	21st Nov.	3	Sapræmia	—	Live.
683	36	1	40	Forceps	Extended brcech	9th Dec.	13	Breast abscess	—	Live.
711 E.	28	2	32	Natural forces ...	Retained placenta	17th Dec.	10	Sapræmia	—	Live.

* E. after register number indicates emergency case. † S.B. =Stillbirth, M. = Macerated,

Summary of the 16 Pyrexial Cases.

Uterine infection (puerperal fever)	9
Mammary abscess	4
Urinary infection	1
Influenza	1
Pyæmia abscesses—lung	1
	—
	16
	—

Stillbirths.

Details of the 39 Stillbirths.

No. of Infants.	Method of Delivery.	Causation.	Mother.		Infant.	
			Primi- para.	Multi- para.	Full Term.	Prema- ture.
20	Natural forces	Subarachnoid hæmorrhage (confirmed by autopsy)	1	—	—	1
		Hydrocephalus, placenta prævia	—	1	1	—
		Ante-partum hæmorrhage, placenta prævia	—	1	—	1
		Uterine inertia, prolonged first stage	1	—	—	1
		Hydramnios, premature multiple pregnancy	1	—	—	1
		Toxæmia of pregnancy, ante-partum hæmorrhage	—	1	1	—
		Anacephaly, prematurity	1	—	—	1
		Macerated foetus, ? cause	—	1	1	—
		Uterine inertia, prolonged first stage	1	—	1	—
		Premature labour, multiple pregnancy... ..	1	—	—	1
		Uterine inertia, prolonged second stage... ..	1	—	1	—
		Puerperal septicæmia, retained products, prematurity	1	—	—	1
		Macerated hydrocephalus, maternal pulmonary tuberculosis	1	—	1	—
		Macerated foetus, ? cause	—	1	1	—
		Toxæmia of pregnancy, ante-partum hæmorrhage	1	—	1	—
		Toxæmia of pregnancy, ante-partum hæmorrhage	—	1	1	—
		Macerated foetus, ? cause, multiple pregnancy	—	1	1	—
		Toxæmia of pregnancy, ante-partum hæmorrhage, prematurity	1	—	—	1
		Macerated foetus, prematurity	—	1	—	1
		Hydramnios, anacephalus	1	—	—	1
13	Natural forces, breech presentation	Extended breech, ante-partum hæmorrhage, placenta prævia	—	1	1	—
		Toxæmia of pregnancy, impacted breech delivery	—	1	1	—
		Toxæmia of pregnancy, extended breech delivery	—	1	1	—
		Placenta prævia, breech delivery	—	1	1	—
		Extended breech, prolonged first stage... ..	1	—	1	—
		Extended breech, spina bifida, hydrocephalus	1	—	1	—
		Extended breech, intracranial hæmorrhage	1	—	1	—
		Prolonged first stage, difficult extended breech	—	1	1	—
		Extended breech, hydrocephalus spina bifida	1	—	1	—
		Extended breech, placenta prævia, ante-partum hæmorrhage	—	1	—	1
		Breech delivery, primary prolapse of cord	—	1	1	—
		Extended breech, macerated foetus, prematurity	1	—	—	1
		Extended breech, macerated foetus, prolonged first stage	—	1	1	—
		Macerated foetus, prematurity	—	1	—	1
		Hydramnios, anacephaly	—	1	1	—
		Prolonged first stage, uterine inertia	1	—	1	—
2	Surgical inductions	Hydrocephalus, spina bifida	1	—	1	—
		Persistent mento-posterior, prolonged labour	—	1	1	—
1	Failed forceps, craniotomy	Contracted pelvis	—	1	1	—
1	Perforation, craniotomy		—	1	1	—

Analysis of Breech Presentations.

	B or E	Num- ber of Cases.	Result.								
			Mothers.		Children.						
			L.	D.	L.	S.B.	M.	D.			
Complicated breech	..	..	..	B	11	11	—	9	—	—	2
				E	3	2	1	1	2	—	—
Uncomplicated breech	..	..	..	B	10	10	—	8	2	—	—
				E	2	2	—	1	1	—	—
Multiple pregnancy (all twins)	..	..		B	5	5	—	10	—	—	—
				E	1	1	—	—	—	1	1
Hydrocephaly	..	..	..	B	1	1	—	—	1	—	—
				E	2	2	—	1	1	—	—
Transverse lie—breech	..	..	..	B	2	2	—	2	—	—	—
				E	1	1	—	—	—	1	—
Placenta prævia	..	..	..	B	4	4	—	4	—	—	—
				E	3	3	—	—	3	—	—
Nil. Prolapse of cord	..	..	..	B	1	1	—	—	1	—	—
				—	46	45	1	36	11	2	3

Analysis of Indications in Special Methods of Delivery.

Method of Delivery.	Indication.	B or E.	Num- ber of Cases.	Result.					
				Mothers.		Children.			
				L.	D.	L.	S.B.	M.	D.
Craniotomy	Persistent occipito-posterior. “Failed forceps” ..	B	1	1	—	—	1	—	—
	Persistent mento-posterior. “Failed forceps” ..	E	1	1	—	—	1	—	—
		—	2	2	—	—	2	—	—
Cæsarian section	Contracted pelvis	B	2	2	—	2	—	—	—
	Placenta prævia	B	1	1	—	1	—	—	—
		E	1	1	—	1	—	—	—
	Multiple fibro-myomata uteri	B	1	1	—	1	—	—	—
		—	5	5	—	5	—	—	—
Forceps	Prolonged second stage associated with posterior positions and uterine inertia	E	3	3	—	2	—	—	1
		B	21	21	—	19	1	—	1
	Eclampsia	B	1	1	—	1	—	—	—
	Obstructed labour—R.M. posterior	B	1	1	—	1	—	—	—
	Obstructed labour—hydro- cephalus	E	1	1	—	—	—	1	—
		—	27	27	—	23	1	1	2

B = booked case. E = emergency case.

Analysis of Cases of Normal and Abnormal Pregnancy, Parturition and Puerperium treated in Maternity, Gynæcological and other Wards during the Year.

	Deaths.	Total.
Pregnancy	—	17
Pregnancy and spurious labour pains	—	62
Toxæmia of pregnancy	—	17
Abnormal condition of gravid uterus and ovum	—	8
Ectopic gestation	—	9
Pregnancy—concomitant disease	—	40
Abortion—threatened	—	33
„ complete	—	94
„ incomplete	—	85
„ with local infection	2	19
„ with general peritonitis	1	4
Labour—normal	—	660
„ normal and toxæmia of pregnancy	—	10
„ normal and concomitant disease	—	23
„ abnormal	—	24
„ abnormal and concomitant disease	1	21
„ multiple	—	17
Puerperium—normal	—	10
„ and concomitant disease	2	4
Retained products of conception	—	10
Puerperium—toxæmia, septicæmia and pyæmia	—	1
Mental disorders associated with child-bearing	—	3
Total	6	1,171

Maternal Morbidity of Cases of Abortion.

Cases during the year	235
Pyrexial cases	5
Deaths	3
Pyrexial cases and deaths	8

Morbidity per cent. 3·4.

9. Dietetic Department.

The segregation of patients needing special dietetic treatment into two wards has greatly facilitated this work. Continuity of treatment and observation has been established after discharge to out-patients. The number of patients treated has increased considerably, and the appended figures give a brief outline of the character of investigation and treatment undertaken. It is hoped that the dietetic kitchen may be provided in close contact with the wards in order that the services of the sister-dietitian shall be more available both to the patients and the nursing staff.

Details of Pathological Investigations in the Dietetic Department.

Glucose tolerance tests	27
Blood sugar curves	36
Daily blood sugars /	570
Out-patients—blood sugars	120
	753

Details of Cases for the Year.

Disease.	Number.	Operations.
Peptic ulcer	197	23
Peptic ulcers with hæmatemesis treated with Puree diet	57	—
Diabetes mellitus with complications (various)	84	2
Colitis	12	1
Obesity	11	—
Carcinoma of stomach	10	—
Renal disease	6	—
Anæmia	5	—
Cholecystitis	4	—
Hyperthyroidism	4	—
Vitamin deficiency	1	—
? Sprue	1	—
? Hyperparathyroidism	1	—
Dietetic investigation	17	—
Totals	410	26

10. Department of Pathology.

Summary of Examinations made during the Year.

	At Central Middlesex County Hospital.	At other Hospitals.	Totals.
Bacteriology	3,102	91	3,193
Biochemistry	3,817	—	3,817
Other clinical pathology	3,520	545	4,065
Morbid anatomy	479	400	879
Totals	10,918	1,036	11,954

Hospital autopsy rate = 42·2 per cent.

	Other Clinical Pathology.																								Morbid Anatomy.												
	Hæmatology.												Serology.										Microscopy and General.												Histology.		Autopsy.
	Full Count.	Red Cells and Hæmoglobin.	White Cell Count and Differential.	Reticulocyte Count.	Platelet Count.	Red Cell Fragility.	Bleeding Time.	Coagulation Time.	Sedimentation Test.	Blood Grouping.	Blood Compatibility.	Widal Reaction.	Bacterial Agglutinations.	Complement Fixation Test. Gc.	Wassermann Reaction—Blood.	Wassermann Reaction—C.S.F.	Urine.	Fæces.	Cerebrospinal Fluid.	Exudates and other Fluids.	Parasitic Infections.	Hair for Ringworm.	Other Examinations.	Surgical Specimens.	Post-Mortem Specimens.	Hospital Cases.											
Central Middlesex	360	301	140	78	16	7	10	10	206	169	89	143	274	—	—	—	794	—	319	498	42	1	63	—	—	479											
Other Hospitals*	—	—	—	—	—	—	—	—	—	—	—	—	—	11	398	136	—	—	—	—	—	—	—	185	215	—											

* Pregnancy diagnosis Station, Edinburgh, Willesden General Hospital, West Middlesex County Hospital and North Middlesex County Hospital.

11. Casualty and Out-Patient Department.

									Patients.	Attendances.
Casualty	..	..	..	..	..	..	..	..	3,715	9,277
Medical and surgical			..	..	..	..	..	..	2,268	6,565
X-ray	..	..	..	..	..	..	..	..	1,225	1,225
Massage	..	..	..	..	..	..	..	..	264	5,232
Electrical	..	..	..	..	..	..		..	323	6,478
Psychiatric	..	..	..	..	..	..	..	..	246	871
Dental..	..	..	..	..	..	..	..	..	851	1,143
Totals				..	..	..	..	..	8,892	30,791
Ante-natal	..	..	..	..	..	..	..	..	876	3,271
Grand totals				..	..	..	..	..	9,768	34,062

12. Nurses' Sick Room.

Number of nurses at 31st December	..	..	..	..	370
Nurses off sick during the year who were admitted	..	..			128
Nursing days lost of those admitted	..	..	..	..	1,293
Average number of days lost per sick nurse admitted	..	..			10·1
Average number of days lost per nurse on staff	..	..	..		3·5
Disability—					
Tonsillitis, ear, nose and throat conditions	..	..	..		41
Influenza	..	..	..	..	28
Septic infection of skin	..	..	..	..	15
Gastro intestinal disorders	..	..	..	..	11
Bronchitis and/or pneumonia	..	..	..	..	7
Injuries	..	..	..	..	6
Rheumatism	..	..	..	..	4
Notifiable diseases	..	..	..	..	3
Pulmonary tuberculosis	..	..	..	..	2
Nervous breakdown	..	..	..	..	2
Miscellaneous	..	..	..	..	9
					128

Details of Cancer Cases.

Total number of cases during the year 285.

Site.	Number admitted after advice or treatment at other hospitals.	Number admitted without previous hospital advice or treatment.	Number transferred to North Middlesex Hospital for radium and deep X-ray therapy.	Deaths.	Discharged
Uterus	2	35	11	14	12
Tongue and mouth ..	—	7	1	4	2
Breast	1	31	6	12	14
Lip	—	—	—	—	—
Skin	1	12	3	5	5
Larynx	1	2	2	1	—
Bladder	—	12	—	7	5
Rectum	—	28	—	18	10
Other sites—					
Digestive	—	98	—	69	29
Generative	—	21	—	12	9
Urinary	—	1	—	1	—
Miscellaneous ..	—	33	1	28	4
Totals	5	280	24	171	90

Per cent. of male cases 54·73
Per cent. of female cases 45·27

Comparative Tables.

—	1935.	1936.	1937.
Beds—average daily number occupied	798	786	787
Admissions—average daily number	20	22	24
Discharges	7,378	8,143	8,925
Operations—major and minor	3,099	2,847	4,988
Anæsthetics	1,965	2,087	3,797
Dental treatments	878	645	1,143
Radiological investigations	3,924	5,047	6,243
Massage treatments	9,633	9,614	11,875
Electro-therapeutic and sunlight treatments	14,601	14,988	16,608
Ante-natal clinic—women examined	778	849	876
Ante-natal clinic—attendances	3,067	3,054	3,271
Confinements	724	748	720
Maternal mortality—rate per 1,000 delivered	4·13	2·66	1·38
Maternal morbidity—rate per 1,000 delivered	17·93	21·39	23·61
Births	708	722	698
Still-birth rate (per cent.)	3·7	4·1	5·2
Infant mortality rate per 100 total births at hospital	7·3	6·6	8·05
Infant mortality rate per 100 born alive at hospital	3·5	2·6	2·86
Pathological investigations	4,159	6,212	11,475
Casualty and out-patients (excluding ante-natal)	2,168	5,194	8,892
Casualty and out-patient attendances (excluding ante-natal) ..	7,803	15,119	30,791

H. CARTER,
Medical Superintendent.

AUGUST, 1938.

